The horizontal shredders of the WLH series
BIBER, TIGER and LEOPARD

clever shredding + briquetting

The shredder with angled infeed: WLH BIBER 400

The shredders in the BIBER series are designed for disposing of long timber waste directly next to processing machines.

The material to be shredded is fed into a feed channel with the same width as the shredding machine. Material intake is assisted by infeed rollers which transport the material to the rotor. Material infeed operates according to load, i.e. if the shredding roller is consuming too much power, the feed system switches off automatically until the material in the system has been shredded. This procedure is repeated as long as necessary until the parts are shredded. The size of the chips is determined by a screen positioned around the rotor.

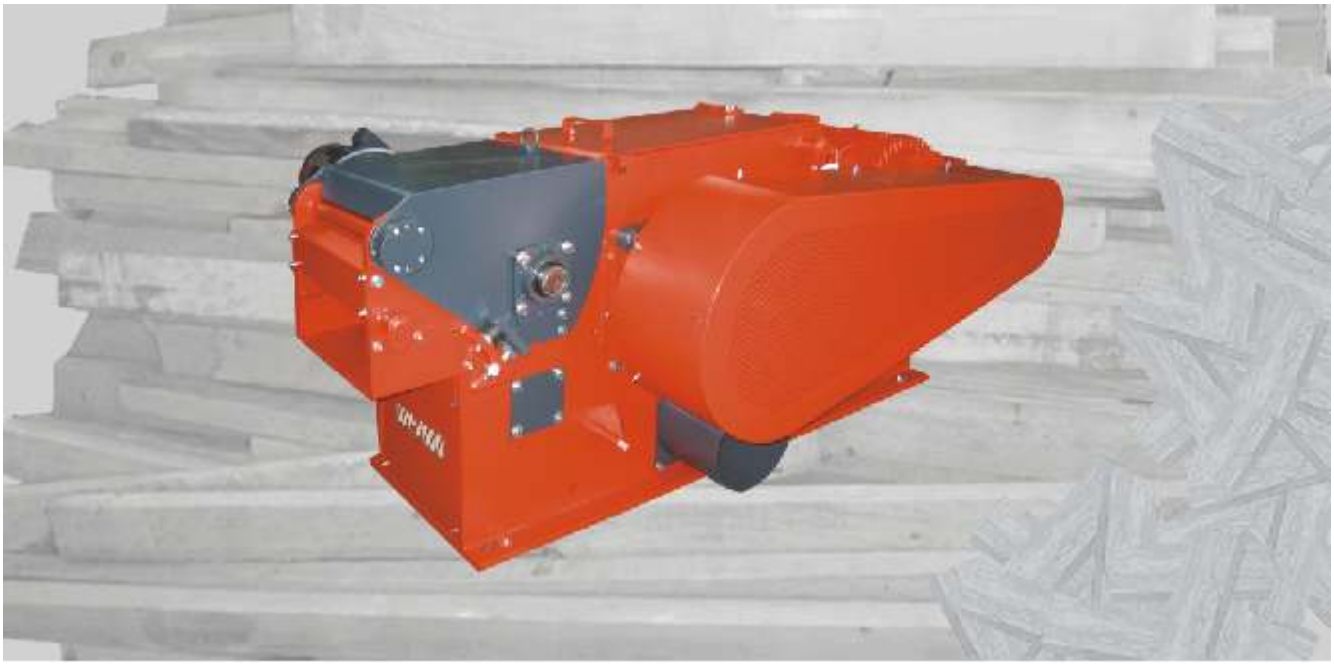
BIBER connected to panel dividing saw

BIBER connected to multi-blade saw

BIBER as stand-alone machine

Horizontal shredder: for special areas of application

Horizontal shredder with roller infeed: WLH TIGER 400 - WLH TIGER 1000



The shredders of the WLH TIGER series are used for shredding long and short timber waste.
All types of timber materials can be turned in to woodchips.

TIGER 600 S with vibrating chute

The material to be shredded is fed into a vibrating chute with the same width as the shredding machine and fed into the horizontal shredder. Material intake is assisted by infeed rollers which transport the material to the rotor.

The Jumbo rotor design, Ø 482 mm, is available for very high throughput rates. These allow much more material to be shredded in the same space.

The horizontal shredders are used in sawmill and long strip wood-processing workshops. The low rotational speed ensures that noise levels are kept to a minimum. This makes it possible to use them directly at or beneath processing machines. Used specifically for processing chipboard and solid timber. The material is fed into a vibrating chute of adjustable length.

TIGER 800 S in use

Timber waste for shredding,
long and short material

Horizontal Shredder Series WLH: highly versatile

Horizontal shredder with chain link infeed: WLH LEOPARD 400 - WLH LEOPARD 1000

Shredders of the LEOPARD series are designed specially for shredding long and short timber waste as well as chipboards, strips and packages.

The material to be shredded is fed into a vibrating chute with the same width as the shredding machine and fed into the horizontal shredder. The chain belts grasp the stack of material, press it together (frictional locking) and feed it into the rotor. Material infeed operates according to load.The Jumbo rotor design, Ø 482 mm, is available for very high throughput requirement rates.

The special chain link infeed even allows the material to be fed into the rotor in packages.

LEOPARD in a pit connected directly to a panel dividing saw

Chain link infeed for timber waste and chipboard stacks

Form-fit with chain link infeed

Technical Details of the Horizontal Shredders: Series WLH

The advantages of the V rotor:

- variable knife projection
- reduced gap between rotor and counterknife
- aggressive knife contact through concave reversible knives
- optimum cutting geometry with V rotor
- homogenous shredding results without striation
- segmented counterknives
- rotor shaft made of solid steel and tempered, bolted shaft pins

The optimum configuration of the V rotor increases throughput, reduces energy consumption, reduces the thermal load and minimizes wear and tear.

4-way reversible knives

Concave reversible knives:
Made of HSS, HH and annealed steel, universally applicable and extremely resilient for the most varied applications.

The shredded material is fed out through the screen connected to the rotor. Variable screen hole diameter setting (10 - 60 mm) determines the required size of wood chip.

V-rotor, Ø 368 mm

Broaching knife, at side of rotor

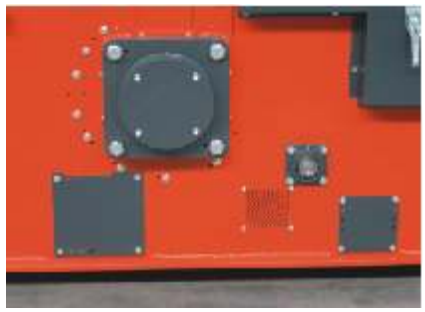
Infeed roller, top, TIGER

Infeed roller, bottom, TIGER

Chain link infeed, top, LEOPARD

Chain link infeed, top, LEOPARD

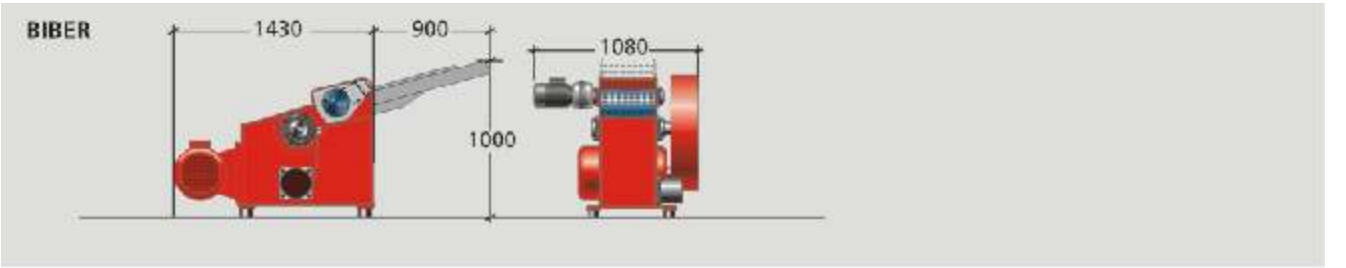
Extra short machine design

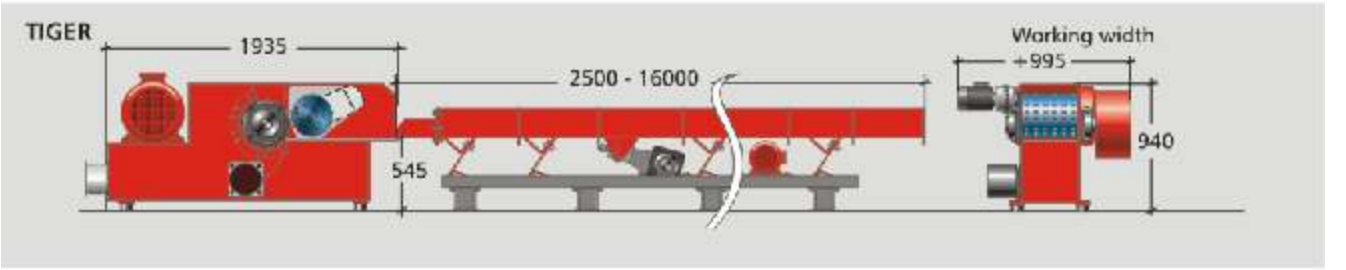


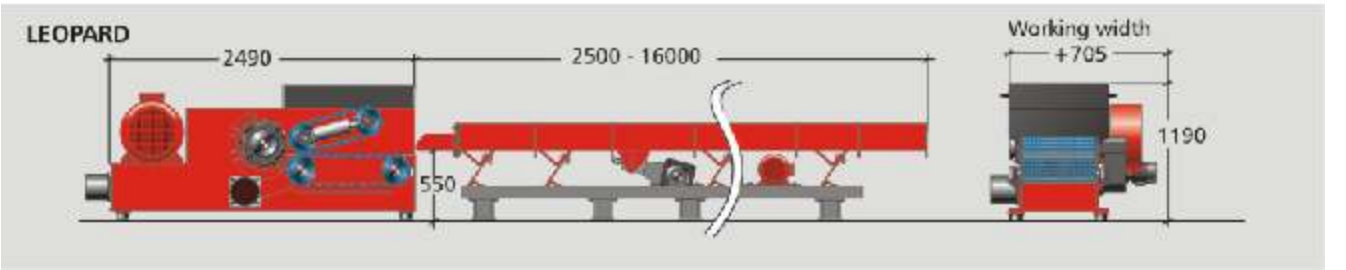
Rotor bearing, closed

Extra short machine design

Transition to vibrating chute







Other sizes and designs available! Details of sizes on request. (All dimensions in mm)

Technical Data	BIBER 400	TIGER 400	TIGER 600	TIGER 800	TIGER 1000	LEOPARD 400	LEOPARD 600	LEOPARD 800	LEOPARD 1000
Hopper opening (mm):	350	400	600	800	1000	400	600	800	1000
Throughput (kg/h)*:	600	1.800	2.300	3.000	3.500	1.800	2.300	3.000	3.500
Rotor diameter:	252	368**	368**	368**	368**	368**	368**	368**	368**
Power (kW):	15/18,5	22/30/37	22/30/37	30/37/45	30/37/45	22/30/37	22/30/37	30/37/45	30/37/45
Tools (Pieces):	18	22	32	44	56	22	32	44	56
Screen size (mm):	10 - 100	10 - 100	10 - 100	10 - 100	10 - 100	10 - 100	10 - 100	10 - 100	10 - 100
Connection-Ø (mm):	200	250/300	250/300	250/300	250/300	250/300	250/300	250/300	250/300
Weight approx. (kg):	1.000	1.600	2.100	2.600	3.500	1.800	2.400	3.000	4.000

* approx / for screen sizes 20 mm / depending on material; ** Ø 482 also available

Demonstrations and tests with your material possible in our engineering centre on request.

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